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PRELIMINARY AMENDMENT

Applicant(s): Toshiya Mori

Title: BROADCAST APPARATUS AND RECEPTION APPARATUS THAT ENABLE ADDITIONAL DATA TO BE USED WITHOUT A WAITING TIME WHEN ONE PROGRAM CHANGES TO ANOTHER

Attorney's
Docket No.: NAK1-BP24

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DATE OF DEPOSIT: July 2, 2001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Toshiya Mori

Serial No.:

Filed:

For: BROADCAST APPARATUS AND RECEPTION
APPARATUS THAT ENABLE ADDITIONAL DATA
TO BE USED WITHOUT A WAITING TIME WHEN
ONE PROGRAM CHANGES TO ANOTHER

Examiner:

Group Art Unit:

July 2, 2001

Irvine, California 92614

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Prior to an examination on the merits of the above-identified application, please enter the following amendments:

IN THE CLAIMS:

Please amend the claims as follows:

- 1 22. (Amended) The broadcast apparatus of claim 19,
 - 2 wherein, when the judging means judges that the broadcast time period of the
 - 3 second time period of the second program data is no longer than the predetermined criterion time
 - 4 period, the multiplexing means repeatedly multiplexes the second additional data and the first

5 additional data with the second program data during the broadcast time period of the second
6 program data.

1 23. (Amended) The broadcast apparatus of claim 19, further comprising:
2 criterion time period determining means for determining the predetermined
3 criterion time period to be used by the judging means by multiplying a time period of a broadcast
4 cycle of additional data by a predetermined coefficient.

1 27. (Amended) The broadcast apparatus of claim 24,
2 wherein, when the judging means judges that the time period from the last update
3 time of the second additional data to the start of the broadcast time period of the first program
4 data is no longer than the predetermined criterion time period, the multiplexing means repeatedly
5 multiplexes the second additional data and the first additional data with the second program data
6 during the time period from the last update time of the second additional data to the start of the
7 broadcast time period of the first program data.

1 28. (Amended) The broadcast apparatus of claim 24, further comprising:
2 criterion time period determining means for determining the predetermined
3 criterion time period to be used by the judging means by multiplying a time period of a broadcast
4 cycle of additional data by a predetermined coefficient.

1 31. (Amended) The broadcast apparatus of claim 29 further comprising:
2 criterion time period determining means for determining the predetermined
3 criterion time period to be used by the judging means by multiplying a time period of a broadcast
4 cycle of additional data by a predetermined coefficient.

1 41. (Amended) The broadcast apparatus of claim 36,
2 wherein the accepting means further accepts, from the outside, an indication of
3 the predetermined time period.

Please add the following newly-drafted Claims 58-70.

1 58. (New) The broadcast apparatus of claim 20,
2 wherein, when the judging means judges that the broadcast time period of the
3 second time period of the second program data is no longer than the predetermined criterion time
4 period, the multiplexing means repeatedly multiplexes the second additional data and the first
5 additional data with the second program data during the broadcast time period of the second
6 program data.

1 59. (New) The broadcast apparatus of claim 21,
2 wherein, when the judging means judges that the broadcast time period of the
3 second time period of the second program data is no longer than the predetermined criterion time
4 period, the multiplexing means repeatedly multiplexes the second additional data and the first
5 additional data with the second program data during the broadcast time period of the second
6 program data.

1 60. (New) The broadcast apparatus of claim 20, further comprising:
2 criterion time period determining means for determining the predetermined
3 criterion time period to be used by the judging means by multiplying a time period of a broadcast
4 cycle of additional data by a predetermined coefficient.

61. (New) The broadcast apparatus of claim 21, further comprising:
criterion time period determining means for determining the predetermined
on time period to be used by the judging means by multiplying a time period of a broadcast
of additional data by a predetermined coefficient.

62. (New) The broadcast apparatus of claim 25,
wherein, when the judging means judges that the time period from the last update
of the second additional data to the start of the broadcast time period of the first program
no longer than the predetermined criterion time period, the multiplexing means repeatedly
lexes the second additional data and the first additional data with the second program data
the time period from the last update time of the second additional data to the start of the
last time period of the first program data.

63. (New) The broadcast apparatus of claim 26,
wherein, when the judging means judges that the time period from the last update
of the second additional data to the start of the broadcast time period of the first program
no longer than the predetermined criterion time period, the multiplexing means repeatedly
lexes the second additional data and the first additional data with the second program data
the time period from the last update time of the second additional data to the start of the
last time period of the first program data.

1 64. (New) The broadcast apparatus of claim 25, further comprising:
2 criterion time period determining means for determining the predetermined
3 criterion time period to be used by the judging means by multiplying a time period of a broadcast
4 cycle of additional data by a predetermined coefficient.

1 65. (New) The broadcast apparatus of claim 26, further comprising:
2 criterion time period determining means for determining the predetermined
3 criterion time period to be used by the judging means by multiplying a time period of a broadcast
4 cycle of additional data by a predetermined coefficient.

1 66. (New)) The broadcast apparatus of claim 30 further comprising:
2 criterion time period determining means for determining the predetermined
3 criterion time period to be used by the judging means by multiplying a time period of a broadcast
4 cycle of additional data by a predetermined coefficient.

1 67. (New) The broadcast apparatus of claim 37,
2 wherein the accepting means further accepts, from the outside, an indication of
3 the predetermined time period.

1 68. (New) The broadcast apparatus of claim 38,
2 wherein the accepting means further accepts, from the outside, an indication of
3 the predetermined time period.

69. (New) The broadcast apparatus of claim 39,

2 wherein the accepting means further accepts, from the outside, an indication of
3 the predetermined time period.

70. (New) The broadcast apparatus of claim 40,

2 wherein the accepting means further accepts, from the outside, an indication of
3 the predetermined time period.

REMARKS

The amendments to the claims are to remove multiple dependencies.

Newly drafted Claims 58-70 are within the scope of the original invention and do not add any new subject matter.

If the Examiner believes that a telephone interview will help further the prosecution of this case, he is respectfully requested to contact the undersigned attorney at the listed telephone number.

Very truly yours,

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

The claims have been amended as follows:

22. (Amended) The broadcast apparatus of [any of] claim 19, [20, and 21]
wherein, when the judging means judges that the broadcast time period of the
time period of the second program data is no longer than the predetermined criterion time
, the multiplexing means repeatedly multiplexes the second additional data and the first
data with the second program data during the broadcast time period of the second
data.

23. (Amended) The broadcast apparatus of [any of] claim 19, [20, and 21] further comprising:

criterion time period determining means for determining the predetermined criterion time period to be used by the judging means by multiplying a time period of a broadcast cycle of additional data by a predetermined coefficient.

27. (Amended) The broadcast apparatus of [any of] claim 24, [25, and 26],
wherein, when the judging means judges that the time period from the last update
of the second additional data to the start of the broadcast time period of the first program
no longer than the predetermined criterion time period, the multiplexing means repeatedly
lexes the second additional data and the first additional data with the second program data
the time period from the last update time of the second additional data to the start of the
last time period of the first program data.

28. The broadcast apparatus of [any of] claim 24, [25, and 26] further comprising:
criterion time period determining means for determining the predetermined
on time period to be used by the judging means by multiplying a time period of a broadcast
of additional data by a predetermined coefficient.

31. (Amended) The broadcast apparatus of [any of] claim 29 [and 30] further

comprising:

criterion time period determining means for determining the predetermined criterion time period to be used by the judging means by multiplying a time period of a broadcast cycle of additional data by a predetermined coefficient.

41. (Amended) The broadcast apparatus of [any of] claim 36, [37, 38, 39, and 40]
wherein the accepting means further accepts, from the outside, an indication of
determined time period.

Claims 58-70 have been added.